



**BRUHAT BANGALORE MAHANAGARA PALIKE**

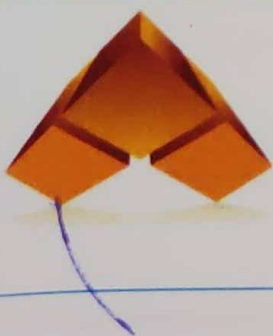
### **Package No.4 (Package consists of 3 works)**

- 1.Improvements to roads,drains and footpath at 1st Block 5th ,6th BEL Layout 4th block HMT layout , Narasipura, Defence layout, NTI layout Main road and cross roads in Ward No.09 (Vidyaranyapura)
- 2.Improvements To Roads, Drains And Footpath At Iechs Layout,Jnaneshwari Layout,Anjaneyaswamy Layout ,Apc Layout Lakeshore Garden ,Sapthagari Layout ,Somanna Garden,Main Roads And Cross Roads In Ward No 09 (Vidyaranyapura)
- 3.Improvements To Roads And Drains at Kodegehalli,Virupakshapura,Parvathamma Layout,Bullet Krishnappa Layout , Sir M V Layout ,Thindlu,Anamda Layout ,Canara Bank Layout Road And Cross Roads In Ward No 09 (Vidyaranyapura)

### **Detailed Project Report**

**July-2022**

**Amount - 900.00 Lakhs**



**TEJUS CONSULTANTS  
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BRUHAT BANGALORE MAHANAGARA PALIKE

Package No.4 (Package consists of 3 works)

| Name Of Work |                                                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | Improvements to roads, drains and footpath at 1st Block 5th, 6th BEL Layout 4th block HMT layout , Narasipura, Defence layout, NTI layout Ma road and cross roads in Ward No.09 (Vidyaranyapura)                               |
| 2            | Improvements To Roads, Drains And Footpath At Techs Layout, Jnaneshwari Layout, Anjaneyaswamy Layout ,Apc Layout Lakeshore Garden ,Saphnagar Layout ,Soniama Garden,Main Roads And Cross Roads In Ward No.09 (Vidyaranyapura)  |
| 3            | Improvements To Roads And Drainsat Kodegehalli, Yirupasthapura, Parvathamma Layout, Bullet Krishnappa Layout , Sir M V Layout , Thindlu, Ananda Layout ,Canara Bank Layout Road And Cross Roads In Ward No.09 (Vidyaranyapura) |

Bill of Quantities

| Item No. | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit  | BOQ      | BOQ Rate    | BOQ Amount  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------------|-------------|
| 1        | Removing and resetting of footpath slab (Approved rate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sq-m  | 12645.31 | 258.50      | 3268812.635 |
| 2        | Removing and resetting of kerb stones(Approved Rate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m     | 2,305.60 | 129.80      | 299256.88   |
| 3        | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead By Mechanical Means - Cement Concrete Grade M-15 & M-20 (P.No. 8, V-III, I.No. 2,8 A.-of CSR 2021-22)                                                                                                                                                                                                                                                                                                               | Cum   | 171.31   | 969.10      | 166016.521  |
| 4        | Earth work excavation by manual means for drains, canals, waste weir, draft approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, bracing, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work.(V-I, I.No 1.4.1, Page No-5 of PWD SR 2021-22)                                                                                                 | Cum   | 8,723.61 | 334.40      | 2917175.184 |
| 5        | Providing and laying in position plain cement concrete for leveling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality labour. Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M70) Using 40 mm nominal size graded crushed coarse aggregates (V-I, No-2:1.3, P No-15 of PWD SR 2021-22).                                               | Cum   | 84.62    | 6,327.20    | 535407.664  |
| 6        | Providing and laying in position Reinforced cement concrete for all Sub structures of building, irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, conforming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2of PW, P&WTD S.R 2021-22) | Cum   | 241.92   | 7,225.68    | 1748036.506 |
| 7        | Supplying, Fitting and Placing TMT bar Fe 550 Reinforcement in sub-structure complete as per Drawing and Technical Specifications (V-III, I.No 13.1 Page No.99, PWD SR 2021-22) Issue Rate dated on 07-04-2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tonne | 17.81    | 1,13,661.90 | 2024318.439 |
| 8        | Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (V-III,P.No. 9, I.No.5.4 of PW, P&WTD S.R 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cum   | 136.69   | 5,964.20    | 815246.498  |
| 9        | Providing Flush/Ruled pointing, Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge. (V-2,P.No.44, I.No.8.19.1 of PW, P&WTD S.R 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm   | 494.05   | 220.00      | 108691      |
| 10       | Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-III, I.No-6:33, P.No-17 of PWD SR 2021-22)                                                                                                                                                                                                                                                                                                           | Sqm   | 94.00    | 1,173.70    | 110327.8    |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |           |           |             |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|-----------|-------------|
| 11 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machines, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-I, No-2.14, P-No-15 of PWD SR 2021-22). | Cum  | 36.16     | 6,518.60  | 235712.576  |
| 12 | Providing and fixing precast reinforced cement concrete covering slabs of 10 cm thick made of M20 with OPC cement with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, H.O.M of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work. (Data Rate)                                                                                                                                                                                                   | Sqm  | 3,924.30  | 2,072.00  | 8131149.6   |
| 13 | Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) (Data Rate)                                                                                                                                                                                                                                                                                                                                                         | Sqm  | 768.60    | 5,037.00  | 3871438.2   |
| 14 | Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery loading and unloading, lead and lift, transportation etc., complete as directed by the Engineer in Charge of the work. (Approved Rate)                                                                                                                                                                                                                                                               | No's | 1,617.00  | 507.00    | 819819      |
| 15 | Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III No-8,10,P No-56 of PWD BCSR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm  | 2,002.00  | 93.50     | 187187      |
| 16 | Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, bracing, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. (V-I, P-No-8,1No-1,12)                                                | Cum  | 1,040.68  | 71.50     | 74408.62    |
| 17 | Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Plant/Mix Method (V-III No-4.27 A.P No-24 of PWD BCSR 2021-22)                                                                                                                                                                                                                                                        | Cum  | 796.18    | 2,633.40  | 2096660.412 |
| 18 | Providing and applying primer coat with SST grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg per m <sup>2</sup> using mechanical means. (V-III No-5.1 A.P No-29 of PWD BCSR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm  | 3,980.91  | 48.40     | 192676.044  |
| 19 | Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m <sup>2</sup> on the prepared bituminous surface cleaned with mechanical broom. (V-III No-5.3.P No-29 of PWD BCSR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm  | 89,316.21 | 13.20     | 1178973.972 |
| 20 | Dense Graded Bituminous Macadam Grading - II for traffic < 20 MSA Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 505 complete in all respects (V-III No-5.12 C, P No-33 of PWD BCSR 2021-22)                                                                                      | Cum  | 652.79    | 10,877.90 | 7100984.341 |
| 21 | Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P No-36, 1No.5, 16C of PWD SR 2021-22).                                                                                                                                                                         | Cum  | 3,050.42  | 12,684.10 | 38691832.32 |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                              |          |             |                |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------|----------|-------------|----------------|
| 22 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trapbasalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machines, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates(V-11 No-2,11, P.No-150f KPWD SR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cum  | 122.25                                       | 5,473.60 | 669147.6    |                |
| 23 | Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14 days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc. complete, as per the directions of the Engineer-in-charge of the work(V-111 No-20,29,P.No-138 of PWD BCSR 2021-22) | Cum  | 122.25                                       | 7,520.70 | 919405.575  |                |
| 24 | Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m <sup>2</sup> area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015 The finished surface to be level, uniform and free from streaks and holes (V-111 No-8,15,P No-57 of PWD BCSR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sqm  | 2,371.10                                     | 525.80   | 1246724.38  |                |
| 25 | Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-111 Page No.3, Item No.1.4 A of PWD SR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | t.Km | 12,498.28                                    | 105.60   | 1319818.368 |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | Total Construction Cost                      |          |             | 7,87,29,237.14 |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | 12% GST to Construction Cost                 |          |             | 94,47,508.45   |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | Cost towards Preparation of DPR              |          |             | 9,00,000.00    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | Cost towards PMC / Third Party Inspection 1% |          |             | 9,00,000.00    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | Sub Total                                    |          |             | 8,99,76,745.55 |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | Miscellaneous and rounding off               |          |             | 23,254.41      |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | TOTAL                                        |          |             | 9,00,00,000.00 |

  
 Executive Engineer,  
 Byatarayanapura Division  
 BBMP Bangalore

TOTAL ABSTRACT



## BRUHAT BANGALORE MAHANAGARA PALIKE

## TOTAL ABSTRACT

Name Of work : Package No.4 (Package consists of 3 works)

- 1.Improvements to roads, drains and footpath at 1st Block 5th, 6th BEL Layout 4th block HMT layout, Narasipura, Defence layout, NTI layout Main road and cross roads in Ward No.09 (Vidyaranyapura)
- 2.Improvements To Roads, Drains And Footpath At techs Layout, Jnaneshwari Layout, Anjaneyaswamy Layout, App Layout Lakeshore Garden, Saphagiri Layout, Somanna Garden, Main Roads And Cross Roads In Ward No.09 (Vidyaranyapura)
- 3.Improvements To Roads And Drainsat Kodegehalli, Virupakshapura, Parvathamma Layout, Buliet Krishnappa Layout, Sir M V Layout, Thindlu, Ananda Layout, Canara Bank Layout Road And Cross Roads In Ward No.09 (Vidyaranyapura)

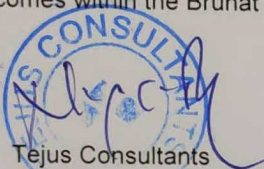
| BOQ Item No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit | Qty      | Rate   | Amount       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------|--------------|
| 1           | Removing and resetting of footpath slab (Approved rate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |        |              |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 5643.84  |        |              |
| E2          | Saphagiri Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 4299.50  |        |              |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 2701.97  |        |              |
| Total       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sq-m | 12645.31 | 258.50 | 32,68,812.64 |
| 2           | Removing and resetting of kerb stones(Aproved Rate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |        |              |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1857.60  |        |              |
| E2          | Saphagiri Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 448.00   |        |              |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |        |              |
| Total       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | m    | 2305.60  | 129.80 | 2,99,266.88  |
| 3           | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead By Mechanical Means - Cement Concrete Grade M-15 & M-20 (P No. 8, V-III, I No. 2, 8 A -of CSR 2021-22)                                                                                                                                                                                                                 |      |          |        |              |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 49.35    |        |              |
| E2          | Saphagiri Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 7.42     |        |              |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 114.54   |        |              |
| Total       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cum  | 171.31   | 969.10 | 1,66,016.52  |
| 4           | Earth work excavation by manual means for drains, canals, waste weir, draft approach channels, key trenches, foundation of bridges and such similiar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, bracing, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. (V-I, I No 1, 4, 1, Page No-5 of PWD SR 2021-22) |      |          |        |              |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 3793.88  |        |              |
| E2          | Saphagiri Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2839.87  |        |              |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 2089.86  |        |              |
| Total       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cum  | 8723.61  | 334.40 | 29,17,175.18 |

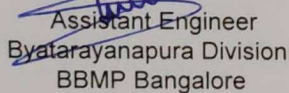
| BOQ Item No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit         | Qty           | Rate             | Amount              |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|---------------------|
| 5           | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, No-2, 1:3, P No-15 of PWD SR 2021-22)                                                 |              |               |                  |                     |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | 33.92         |                  |                     |
| E2          | Sapthagin Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | 19.08         |                  |                     |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 31.62         |                  |                     |
|             | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Cum</b>   | <b>84.62</b>  | <b>6327.20</b>   | <b>5,35,407.66</b>  |
| 6           | Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1, P No-17, I.No 2.4.2 of PW, P&I WTD S.R 2021-22) |              |               |                  |                     |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | 96.90         |                  |                     |
| E2          | Sapthagin Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | 54.57         |                  |                     |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 90.45         |                  |                     |
|             | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Cum</b>   | <b>241.92</b> | <b>7225.68</b>   | <b>17,48,036.51</b> |
| 7           | Supplying, Fitting and Placing TMT bar Fe 550 Reinforcement in sub-structure complete as per Drawing and Technical Specifications (V-III, I.NO 13.1 Page No 99, PWD SR 2021-22) Issue Rate dated on 07-04-2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |               |                  |                     |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | 7.76          |                  |                     |
| E2          | Sapthagin Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | 3.87          |                  |                     |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 6.18          |                  |                     |
|             | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Tonne</b> | <b>17.81</b>  | <b>113661.90</b> | <b>20,24,318.44</b> |
| 8           | Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (V-II, P No. 9, I.No 5.4 of PW, P&I WTD S.R 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |               |                  |                     |
| E1          | BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | 66.62         |                  |                     |
| E2          | Sapthagin Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | 70.07         |                  |                     |
| E3          | BK Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 136.69        |                  |                     |
|             | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Cum</b>   | <b>136.69</b> | <b>5964.20</b>   | <b>8,15,246.50</b>  |

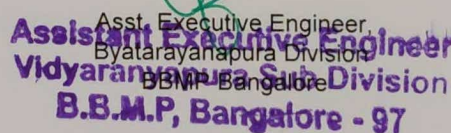
| BOQ Item No | Description                                                                                                                                          | Unit        | Qty             | Rate                                                | Amount                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------------------------------------------|-----------------------|
| 25          | Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22) |             |                 |                                                     |                       |
| E1          | BEL Layout                                                                                                                                           |             | 5408.65         |                                                     |                       |
| E2          | Sapthagiri Layout                                                                                                                                    |             | 4090.62         |                                                     |                       |
| E3          | BK Layout                                                                                                                                            |             | 2999.01         |                                                     |                       |
|             | <b>Total</b>                                                                                                                                         | <b>t.Km</b> | <b>12498.28</b> | <b>105.60</b>                                       | <b>13,19,818.37</b>   |
|             |                                                                                                                                                      |             |                 |                                                     |                       |
|             |                                                                                                                                                      |             |                 | <b>Total Construction Cost</b>                      | <b>7,87,29,237.14</b> |
|             |                                                                                                                                                      |             |                 | <b>12% GST to Construction Cost</b>                 | <b>94,47,508.46</b>   |
|             |                                                                                                                                                      |             |                 | <b>Cost towards Preparation of DPR</b>              | <b>9,00,000.00</b>    |
|             |                                                                                                                                                      |             |                 | <b>Cost towards PMC / Third Party inspection 1%</b> | <b>9,00,000.00</b>    |
|             |                                                                                                                                                      |             |                 | <b>Sub Total</b>                                    | <b>8,99,76,745.59</b> |
|             |                                                                                                                                                      |             |                 | <b>Miscellaneous and rounding off</b>               | <b>23,254.41</b>      |
|             |                                                                                                                                                      |             |                 | <b>TOTAL</b>                                        | <b>9,00,00,000.00</b> |

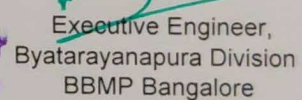
## Certificate

- 1 The rates adopted based on the PWD SR, Bangalore circle for year 2021-22.
- 2 The provisions made in the estimate are necessary and essential.
- 3 The workspot was inspected and work is found to be necessary.
- 4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

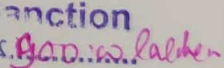
  
Tejus Consultants

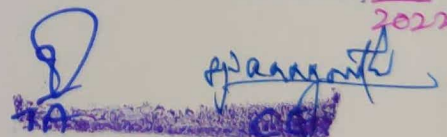
  
Assistant Engineer  
Byatarayanapura Division  
BBMP Bangalore

  
Asst. Executive Engineer  
Byatarayanapura Division  
BBMP Bangalore  
**Assistant Executive Engineer  
Vidyarayanapura Sub Division  
B.B.M.P, Bangalore - 97**

  
Executive Engineer,  
Byatarayanapura Division  
BBMP Bangalore

| ADMINISTRATIVE APPROVAL |                        |
|-------------------------|------------------------|
| Accorded For Rs.        | 900.00 Lakhs only      |
| Head of A/c.            | P8877 Ananth Narayanan |
| Div. Ref. No.           | 32/22-23               |
| Date                    | 14/10/22               |
| AE                      | EE(BTP)                |

Technical Sanction  
Accorded by Rs.   
Head of A/c. P.....  
CER NO : 36..... Dt: 01.07.2022

  
TA

NAME OF WORK

IMPROVEMENTS TO ROADS,DRAINS AND  
FOOTPATH AT 1ST BLOCK 5TH ,6TH  
BEL LAYOUT 4TH BLOCK HMT LAYOUT ,  
NARASIPURA, DEFENCE LAYOUT, NTI  
LAYOUT MAIN ROAD AND CROSS ROADS  
IN WARD No.09 (VIDYARANYAPURA)  
(ESTIMATE COST-400.00 LAKHS)



**BRUHAT BANGALORE MAHANAGARA PALIKE**

**1.Improvements to roads,drains and footpath at 1st Block 5th ,6th BEL Layout 4th block HMT layout , Narasipura, Defence layout, NTI layout Main road and cross roads in Ward No.09 (Vidyaranya)**

| SI No | Description of Items                                    | No  | Length | Width  | Depth | Estimated Cost (Lakhs) |               |
|-------|---------------------------------------------------------|-----|--------|--------|-------|------------------------|---------------|
|       |                                                         |     | m      | m      | m     | Quantity               | Rate          |
|       | <b>Civil Work</b>                                       |     |        |        |       |                        | <b>400.00</b> |
| 1     | Removing and resetting of footpath slab (Approved rate) |     |        |        |       |                        |               |
|       | Basic rate                                              |     | 235.00 |        |       |                        |               |
|       | 10% AW                                                  |     | 23.50  |        |       |                        |               |
|       | Sub Total                                               |     | 258.50 |        |       |                        |               |
|       | Sq-m                                                    |     |        |        |       |                        |               |
|       | <b>Remove and Refixing of Slabs</b>                     |     |        |        |       |                        |               |
|       | <b>2nd A Cross BEL Layout 6th Block</b>                 |     |        |        |       |                        |               |
|       | Ch0-126                                                 | RHS | 1      | 50.00  | 0.90  | 45.00                  |               |
|       | <b>3rd Main Road BEL Layout 6th Block</b>               |     |        |        |       |                        |               |
|       | Ch0-160                                                 | RHS | 1      | 78.00  | 0.90  | 70.20                  |               |
|       | <b>3rd A Main Road BEL Layout 6th Block</b>             |     |        |        |       |                        |               |
|       | Ch0-105                                                 | LHS | 1      | 70.00  | 0.90  | 63.00                  |               |
|       | <b>1st B Cross BEL Layout 6th Block</b>                 |     |        |        |       |                        |               |
|       | Ch0-168                                                 | BS  | 2      | 66.00  | 0.90  | 118.80                 |               |
|       | <b>11 A Cross 3rd Block BEL Layout</b>                  |     |        |        |       |                        |               |
|       | Ch0-177                                                 | BS  | 2      | 140.00 | 0.90  | 252.00                 |               |
|       | <b>11 B Cross 3rd Block BEL Layout</b>                  |     |        |        |       |                        |               |
|       | Ch0-170                                                 | BS  | 2      | 170.00 | 0.90  | 306.00                 |               |
|       | <b>11 C Cross 3rd Block BEL Layout</b>                  |     |        |        |       |                        |               |
|       | Ch0-178                                                 | BS  | 2      | 160.00 | 0.90  | 288.00                 |               |
|       | <b>9 thCross 3rd Block BEL Layout</b>                   |     |        |        |       |                        |               |
|       | Ch0-176                                                 | BS  | 2      | 150.00 | 0.90  | 270.00                 |               |
|       | <b>Narsipura 2nd cross road</b>                         |     |        |        |       |                        |               |
|       | Ch 0-60                                                 | LHS | 1      | 60.00  | 0.90  | 54.00                  |               |
|       | Ch 0-60                                                 | RHS | 1      | 60.00  | 0.90  | 54.00                  |               |
|       | <b>Narsipura 3rd cross 1st Stage road</b>               |     |        |        |       |                        |               |
|       | Ch 0-65                                                 | LHS | 1      | 65.00  | 0.90  | 58.50                  |               |
|       | Ch 0-65                                                 | RHS | 1      | 65.00  | 0.90  | 58.50                  |               |
|       | <b>HMT Layout 16th Cross</b>                            |     |        |        |       |                        |               |
|       | ch0-350                                                 | LHS | 1      | 300.00 | 1.20  | 360.00                 |               |
|       | ch0-350                                                 | RHS | 1      | 320.00 | 1.20  | 384.00                 |               |
|       | <b>NTI LAYOUT 2ND Cross</b>                             |     |        |        |       |                        |               |
|       | ch 0-114                                                | BS  | 2      | 114.00 | 0.90  | 205.20                 |               |
|       | <b>NTI LAYOUT 3rd cross</b>                             |     |        |        |       |                        |               |
|       | ch 0-210.                                               | BS  | 2      | 210.00 | 0.90  | 378.00                 |               |
|       | <b>NTI LAYOUT 20th cross</b>                            |     |        |        |       |                        |               |
|       | Ch0-157                                                 | LHS | 1      | 157.00 | 0.90  | 141.30                 |               |
|       | Ch165-364                                               | LHS | 1      | 100.00 | 0.90  | 90.00                  |               |
|       | Ch0-165                                                 | RHS | 1      | 152.00 | 0.90  | 136.80                 |               |
|       | Ch167-364                                               | RHS | 1      | 100.00 | 0.90  | 90.00                  |               |
|       | <b>NTI LAYOUT 5th cross</b>                             |     |        |        |       |                        |               |
|       | Ch0-314                                                 | BS  | 2      | 266.00 | 0.90  | 478.80                 |               |
|       | <b>NTI LAYOUT 8th A mainRoad</b>                        |     |        |        |       |                        |               |
|       | Ch0-352                                                 | BS  | 2      | 344.00 | 0.90  | 619.20                 |               |
|       | <b>Durgaparameshwari temple road</b>                    |     |        |        |       |                        |               |
|       | Ch 0-216                                                | LHS | 1      | 192.00 | 1.20  | 230.40                 |               |
|       | Ch 216-450                                              | LHS | 1      | 227.00 | 0.90  | 204.30                 |               |
|       | Ch 450-472                                              | LHS | 1      | 22.00  | 1.20  | 26.40                  |               |
|       | Ch 0-310                                                | RHS | 1      | 275.00 | 1.20  | 330.00                 |               |
|       | <b>Defence Layout 5th Cross</b>                         |     |        |        |       |                        |               |

| SI No | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | No | Length | Width | Depth | Quantity  | Rate   | Amount       |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|--------|-------|-------|-----------|--------|--------------|
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |    | m      | m     | m     |           |        |              |
|       | Ch0-540                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LHS    | 1  | 416.00 | 0.90  |       | 374.40    |        |              |
|       | Ch0-540                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RHS    | 1  | 432.00 | 0.90  |       | 388.80    |        |              |
|       | <b>Vidyaranyapura main road to 9TH Cross</b>                                                                                                                                                                                                                                                                                                                                                                                                            |        |    |        |       |       |           |        |              |
|       | Ch1191-1253                                                                                                                                                                                                                                                                                                                                                                                                                                             | LHS    | 1  | 62.00  | 0.90  |       | 55.80     |        |              |
|       | Ch1260-1292                                                                                                                                                                                                                                                                                                                                                                                                                                             | LHS    | 1  | 32.00  | 0.90  |       | 28.80     |        |              |
|       | Ch1302-1334                                                                                                                                                                                                                                                                                                                                                                                                                                             | LHS    | 1  | 32.00  | 0.90  |       | 28.80     |        |              |
|       | Ch1654-1944                                                                                                                                                                                                                                                                                                                                                                                                                                             | LHS    | 1  | 290.00 | 0.90  |       | 261.00    |        |              |
|       | Ch1191-1260                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 69.00  | 0.90  |       | 62.10     |        |              |
|       | Ch1267-1444                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 177.00 | 0.90  |       | 159.30    |        |              |
|       | Ch1450-1600                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 150.00 | 0.90  |       | 135.00    |        |              |
|       | Ch1654-1710                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 56.00  | 0.90  |       | 50.40     |        |              |
|       | Ch1718-1758                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 40.00  | 0.90  |       | 36.00     |        |              |
|       | Ch1764-1944                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 180.00 | 0.90  |       | 162.00    |        |              |
|       | Consider 20% Missing and damaged                                                                                                                                                                                                                                                                                                                                                                                                                        |        |    |        |       |       | -1,410.96 |        |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |    |        |       |       | 5,643.84  | 258.50 | 14,58,932.64 |
| 2     | <b>Removing and resetting of kerb stones(Approved Rate)</b>                                                                                                                                                                                                                                                                                                                                                                                             |        |    |        |       |       |           |        |              |
|       | (Approved Rate)                                                                                                                                                                                                                                                                                                                                                                                                                                         | 118.00 |    |        |       |       |           |        |              |
|       | 10% AW                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11.80  |    |        |       |       |           |        |              |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 129.80 |    |        |       |       |           |        |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | m      |    |        |       |       |           |        |              |
|       | <b>HMT Layout 16th Cross</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |        |    |        |       |       |           |        |              |
|       | Ch0-350                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LHS    | 1  | 315.00 |       |       | 315.00    |        |              |
|       | Ch0-350                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RHS    | 1  | 329.00 |       |       | 329.00    |        |              |
|       | <b>NTI LAYOUT 20th cross</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |        |    |        |       |       |           |        |              |
|       | Ch0-157                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LHS    | 1  | 157.00 |       |       | 157.00    |        |              |
|       | Ch0-45                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RHS    | 1  | 45.00  |       |       | 45.00     |        |              |
|       | Ch50-82                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RHS    | 1  | 32.00  |       |       | 32.00     |        |              |
|       | Ch90-165                                                                                                                                                                                                                                                                                                                                                                                                                                                | RHS    | 1  | 75.00  |       |       | 75.00     |        |              |
|       | <b>Durgaparameshwari temple road</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |        |    |        |       |       |           |        |              |
|       | Ch0-450                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LHS    | 1  | 422.00 |       |       | 422.00    |        |              |
|       | Ch 0-310                                                                                                                                                                                                                                                                                                                                                                                                                                                | RHS    | 1  | 268.00 |       |       | 268.00    |        |              |
|       | <b>Defence Layout 5th Cross</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |        |    |        |       |       |           |        |              |
|       | Ch440-540                                                                                                                                                                                                                                                                                                                                                                                                                                               | BS     | 2  | 100.00 |       |       | 200.00    |        |              |
|       | <b>Vidyaranyapura main road to 9TH Cross</b>                                                                                                                                                                                                                                                                                                                                                                                                            |        |    |        |       |       |           |        |              |
|       | Ch1191-1253                                                                                                                                                                                                                                                                                                                                                                                                                                             | LHS    | 1  | 62.00  |       |       | 62.00     |        |              |
|       | Ch1341-1634                                                                                                                                                                                                                                                                                                                                                                                                                                             | LHS    | 1  | 293.00 |       |       | 293.00    |        |              |
|       | Ch1191-1260                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 62.00  |       |       | 62.00     |        |              |
|       | Ch1267-1394                                                                                                                                                                                                                                                                                                                                                                                                                                             | RHS    | 1  | 62.00  |       |       | 62.00     |        |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |    |        |       |       | 2,322.00  |        |              |
|       | Consider 20% damaged/missing                                                                                                                                                                                                                                                                                                                                                                                                                            |        |    |        |       |       | -464.40   |        |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |    |        |       |       | 1857.60   | 129.80 | 2,41,116.48  |
| 3     | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead By Mechanical Means - Cement Concrete Grade M-15 & M-20 (P.No. 8, V-III, I.No. 2.8 A -of CSR 2021-22) |        |    |        |       |       |           |        |              |
|       | Basic rate                                                                                                                                                                                                                                                                                                                                                                                                                                              | 881.00 |    |        |       |       |           |        |              |
|       | 10% AW                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 88.10  |    |        |       |       |           |        |              |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 969.10 |    |        |       |       |           |        |              |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum    |    |        |       |       |           |        |              |
|       | <b>Damaged Culvert deck slabs</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |        |    |        |       |       |           |        |              |
|       | BEL Layout 6th Block                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 5  | 7.00   | 1.50  | 0.20  | 10.50     |        |              |
|       | NTI LAYOUT 3rd cross                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 2  | 10.00  | 1.50  | 0.20  | 6.00      |        |              |
|       | NTI LAYOUT 5th cross                                                                                                                                                                                                                                                                                                                                                                                                                                    |        | 2  | 7.50   | 1.50  | 0.20  | 4.50      |        |              |

| SI No | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No       | Length | Width | Depth | Quantity | Rate    | Amount      |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-------|----------|---------|-------------|
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | m      | m     | m     |          |         |             |
| 22    | Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work(V-III No-20.29,PNo-138 of PWD BCSR 2021-22) |          |        |       |       |          |         |             |
|       | Basic rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6,837.00 |        |       |       |          |         |             |
|       | 10% AW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 683.70   |        |       |       |          |         |             |
|       | Final Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7520.70  |        |       |       |          |         |             |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cum      |        |       |       |          |         |             |
|       | <b>New CC Road</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |        |       |       |          |         |             |
|       | Narsipura 2nd cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 60.00  | 6.00  | 0.15  | 54.0     |         |             |
|       | Narsipura 3rd cross 1st stage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | 65.00  | 7.00  | 0.15  | 68.25    |         |             |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |        |       |       | 122.25   | 7520.70 | 9,19,405.58 |
| 23    | Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes (V-III No-8.15,P No-57 of PWD BCSR 2021-22)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |        |       |       |          |         |             |
|       | Basic rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 478.00   |        |       |       |          |         |             |
|       | Area Weightage 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47.80    |        |       |       |          |         |             |
|       | Sub Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 525.80   |        |       |       |          |         |             |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sqm      |        |       |       |          |         |             |
|       | 2nd A cross Road BEL Layout 6th Block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.00     | 177.00 | 0.10  |       | 35.40    |         |             |
|       | 3rd Main Road BEL Layout 6th Block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.00     | 170.00 | 0.10  |       | 34.00    |         |             |
|       | 3rd A Main Road BEL Layout 6th Block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00     | 105.00 | 0.10  |       | 21.00    |         |             |
|       | 1st B Cross BEL Layout 6th Block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.00     | 168.00 | 0.10  |       | 33.60    |         |             |
|       | 11 A Cross 3rd Block BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.00     | 177.00 | 0.10  |       | 35.40    |         |             |
|       | 11 B Cross 3rd Block BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.00     | 170.00 | 0.10  |       | 34.00    |         |             |
|       | 11 C Cross 3rd Block BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.00     | 178.00 | 0.10  |       | 35.60    |         |             |
|       | 9 thCross 3rd Block BEL Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.00     | 176.00 | 0.10  |       | 35.20    |         |             |
|       | Vidyaranyapura main road to 9TH Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.00     | 209.00 | 0.10  |       | 41.80    |         |             |
|       | Ch1191-1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.00     | 254.00 | 0.10  |       | 50.80    |         |             |
|       | Ch1400-1654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.00     | 290.00 | 0.10  |       | 58.00    |         |             |
|       | Ch1654-1944                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |        |       |       |          |         |             |
|       | NTI LAYOUT 2ND Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00     | 114.00 | 0.10  |       | 22.80    |         |             |
|       | NTI LAYOUT 3rd cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00     | 210.00 | 0.10  |       | 42.00    |         |             |
|       | NTI LAYOUT 20th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.00     | 364.00 | 0.10  |       | 72.80    |         |             |
|       | NTI LAYOUT 5th cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00     | 314.00 | 0.10  |       | 62.80    |         |             |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |        |       |       | 615.20   | 525.80  | 3,23,472.16 |

| Sl<br>No | Description of Items                                                                                                                                 | No     | Length  | Width | Depth | Quantity                                  | Rate   | Amount         |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-------|-------|-------------------------------------------|--------|----------------|
|          |                                                                                                                                                      |        | m       | m     | m     |                                           |        |                |
| 24       | Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22) |        |         |       |       |                                           |        |                |
|          | Basic Rate                                                                                                                                           | 12.00  |         |       |       |                                           |        |                |
|          | 8KM Lead = 12*8                                                                                                                                      | 96.00  |         |       |       |                                           |        |                |
|          | Area Weightage 10%                                                                                                                                   | 9.60   |         |       |       |                                           |        |                |
|          | Total Rate                                                                                                                                           | 105.60 |         |       |       |                                           |        |                |
|          | t.Km                                                                                                                                                 |        |         |       |       |                                           |        |                |
|          | Qty frm Item No-4                                                                                                                                    |        | 3793.88 | 1.28  |       | 4856.17                                   |        |                |
|          | Qty frm Item No-15                                                                                                                                   |        | 431.63  | 1.28  |       | 552.49                                    |        |                |
|          |                                                                                                                                                      |        |         |       |       | 5,408.65                                  | 105.60 | 5,71,153.44    |
|          |                                                                                                                                                      |        |         |       |       |                                           |        |                |
|          |                                                                                                                                                      |        |         |       |       |                                           |        |                |
|          |                                                                                                                                                      |        |         |       |       |                                           |        |                |
| 5        |                                                                                                                                                      |        |         |       |       | Total Construction Cost                   |        | 3,49,92,135.65 |
| 6        |                                                                                                                                                      |        |         |       |       | 12% GST to Construction Cost              |        | 41,99,056.28   |
| 7        |                                                                                                                                                      |        |         |       |       | Cost towards Preparation of DPR           |        | 4,00,000.00    |
|          |                                                                                                                                                      |        |         |       |       | Cost towards PMC / Third Party inspection |        | 4,00,000.00    |
|          |                                                                                                                                                      |        |         |       |       | Sub Total                                 |        | 3,99,91,191.92 |
| 8        |                                                                                                                                                      |        |         |       |       | Miscellaneous and rounding off            |        | 8,808.08       |
|          |                                                                                                                                                      |        |         |       |       | TOTAL                                     |        | 4,00,00,000.00 |